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AMENDMENTS TO THE CLAIMS

Filed 1/7/04

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method for producing an amorphous alloy ribbon by ejecting an alloy melt onto a cooling roll and rapidly quenching it, said amorphous alloy ribbon continuously produced in one casting step having the total length of 3,000 m or more, comprising grinding said cooling roll while supplying a gas based on CO₂ near a paddle of said alloy melt ejected onto said cooling roll so as to keep an average surface roughness Ra of 0.5 μm or less and a ten-point average surface roughness Rz of 4 μm or less during the casting when the surface roughness of said cooling roll is measured by a method according to JIS B 0601.

2. (original): The method for producing an amorphous alloy ribbon according to claim 1, wherein the grinding of said cooling roll is carried out with a brush.

3. (previously presented): The method for producing an amorphous alloy ribbon according to claim 1, wherein an alloy melt comprising 13 atomic % or less of B and 15 atomic % or less of at least one element selected from the group consisting of transition elements of Groups 4A, 5A and 6A, the balance being substantially Fe, is ejected onto said cooling roll and rapidly quenched.